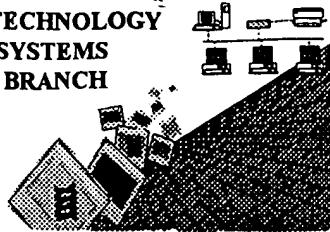


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BIOTECHNOLOGY  
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**RAW SEQUENCE LISTING  
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Revised 01/29/2002



OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/840,669A

DATE: 02/10/2002  
TIME: 13:03:42

Input Set : A:\A-690.ST25.txt  
Output Set: N:\CRF3\02102002\I840669A.raw

3 <110> APPLICANT: KOHNO, TADAHIKO  
 5 <120> TITLE OF INVENTION: APO-AI/AII PEPTIDE DERIVATIVES  
 7 <130> FILE REFERENCE: A-690  
 9 <140> CURRENT APPLICATION NUMBER: 09/840,669A  
 10 <141> CURRENT FILING DATE: 2001-04-23  
 12 <150> PRIOR APPLICATION NUMBER: 60/198,920  
 13 <151> PRIOR FILING DATE: 2000-04-21  
 15 <160> NUMBER OF SEQ ID NOS: 11  
 17 <170> SOFTWARE: PatentIn version 3.1  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 684  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Homo sapiens  
 24 <220> FEATURE:  
 25 <221> NAME/KEY: CDS  
 26 <222> LOCATION: (1)..(684)  
 27 <223> OTHER INFORMATION:  
 30 <400> SEQUENCE: 1  
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 32 Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu  
 33 1 5 10 15  
 35 ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc 96  
 36 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu  
 37 20 25 30  
 39 atg atc tcc cgg acc cct gag gtc aca tgc gtg gtg gac gtg agc 144  
 40 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser  
 41 35 40 45  
 43 cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag 192  
 44 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu  
 45 50 55 60  
 47 gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac aac agc acg 240  
 48 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr  
 49 65 70 75 80  
 51 tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat 288  
 52 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn  
 53 85 90 95  
 55 ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc 336  
 56 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro  
 57 100 105 110  
 59 atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag 384  
 60 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln  
 61 115 120 125  
 63 gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag aac cag gtc 432

P.4  
Does Not Comply  
Corrected Diskette Needed

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/840,669A

DATE: 02/10/2002  
TIME: 13:03:42

Input Set : A:\A-690.ST25.txt  
Output Set: N:\CRF3\02102002\I840669A.raw

|     |       |           |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-------|-----------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 64  | Val   | Tyr       | Thr          | Leu | Pro | Pro | Ser | Arg | Asp | Glu | Leu | Thr | Lys | Asn | Gln | Val |     |
| 65  | 130   |           |              |     | 135 |     |     |     |     |     | 140 |     |     |     |     |     |     |
| 67  | agc   | ctg       | acc          | tgc | ctg | gtc | aaa | ggc | tcc | tat | ccc | agc | gac | atc | gcc | gtg | 480 |
| 68  | Ser   | Leu       | Thr          | Cys | Leu | Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val |     |
| 69  | 145   |           |              |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |     |
| 71  | gag   | tgg       | gag          | agc | aat | ggg | cag | ccg | gag | aac | aac | tac | aag | acc | acg | cct | 528 |
| 72  | Glu   | Trp       | Glu          | Ser | Asn | Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro |     |
| 73  |       |           |              |     | 165 |     |     |     | 170 |     |     |     | 175 |     |     |     |     |
| 75  | ccc   | gtg       | ctg          | gac | tcc | gac | ggc | tcc | tcc | ctc | tac | agc | aag | ctc | acc | 576 |     |
| 76  | Pro   | Val       | Leu          | Asp | Ser | Asp | Gly | Ser | Phe | Phe | Leu | Tyr | Ser | Lys | Leu | Thr |     |
| 77  |       |           |              |     | 180 |     |     |     | 185 |     |     | 190 |     |     |     |     |     |
| 79  | gtg   | gac       | aag          | agc | agg | tgg | cag | cag | ggg | aac | gtc | tcc | tca | tgc | tcc | gtg | 624 |
| 80  | Val   | Asp       | Lys          | Ser | Arg | Trp | Gln | Gln | Gly | Asn | Val | Phe | Ser | Cys | Ser | Val |     |
| 81  |       |           |              |     | 195 |     |     |     | 200 |     |     | 205 |     |     |     |     |     |
| 83  | atg   | cat       | gag          | gct | ctg | cac | aac | cac | tac | acg | cag | aag | agc | ctc | tcc | ctg | 672 |
| 84  | Met   | His       | Glu          | Ala | Leu | His | Asn | His | Tyr | Thr | Gln | Lys | Ser | Leu | Ser | Leu |     |
| 85  |       |           |              |     | 210 |     |     |     | 215 |     |     | 220 |     |     |     |     |     |
| 87  | tct   | ccg       | ggt          | aaa |     |     |     |     |     |     |     |     |     |     |     | 684 |     |
| 88  | Ser   | Pro       | Gly          | Lys |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 89  | 225   |           |              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 92  | <210> | SEQ       | ID           | NO: | 2   |     |     |     |     |     |     |     |     |     |     |     |     |
| 93  | <211> | LENGTH:   | 228          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 94  | <212> | TYPE:     | PRT          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 95  | <213> | ORGANISM: | Homo sapiens |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 97  | <400> | SEQUENCE: | 2            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 99  | Met   | Asp       | Lys          | Thr | His | Thr | Cys | Pro | Pro | Cys | Pro | Ala | Pro | Glu | Leu | Leu |     |
| 100 | 1     |           |              |     | 5   |     |     |     | 10  |     |     | 15  |     |     |     |     |     |
| 103 | Gly   | Gly       | Pro          | Ser | Val | Phe | Leu | Phe | Pro | Pro | Lys | Pro | Lys | Asp | Thr | Leu |     |
| 104 |       |           |              |     | 20  |     |     |     | 25  |     |     | 30  |     |     |     |     |     |
| 107 | Met   | Ile       | Ser          | Arg | Thr | Pro | Glu | Val | Thr | Cys | Val | Val | Val | Asp | Val | Ser |     |
| 108 |       |           |              |     | 35  |     |     |     | 40  |     |     | 45  |     |     |     |     |     |
| 111 | His   | Glu       | Asp          | Pro | Glu | Val | Lys | Phe | Asn | Trp | Tyr | Val | Asp | Gly | Val | Glu |     |
| 112 |       |           |              |     | 50  |     |     |     | 55  |     |     | 60  |     |     |     |     |     |
| 115 | Val   | His       | Asn          | Ala | Lys | Thr | Lys | Pro | Arg | Glu | Glu | Gln | Tyr | Asn | Ser | Thr |     |
| 116 | 65    |           |              |     | 70  |     |     |     | 75  |     |     | 80  |     |     |     |     |     |
| 119 | Tyr   | Arg       | Val          | Val | Ser | Val | Leu | Thr | Val | Leu | His | Gln | Asp | Trp | Leu | Asn |     |
| 120 |       |           |              |     | 85  |     |     |     | 90  |     |     | 95  |     |     |     |     |     |
| 123 | Gly   | Lys       | Glu          | Tyr | Lys | Cys | Lys | Val | Ser | Asn | Lys | Ala | Leu | Pro | Ala | Pro |     |
| 124 |       |           |              |     | 100 |     |     |     | 105 |     |     | 110 |     |     |     |     |     |
| 127 | Ile   | Glu       | Lys          | Thr | Ile | Ser | Lys | Ala | Lys | Gly | Gln | Pro | Arg | Glu | Pro | Gln |     |
| 128 |       |           |              |     | 115 |     |     |     | 120 |     |     | 125 |     |     |     |     |     |
| 131 | Val   | Tyr       | Thr          | Leu | Pro | Pro | Ser | Arg | Asp | Glu | Leu | Thr | Lys | Asn | Gln | Val |     |
| 132 |       |           |              |     | 130 |     |     |     | 135 |     |     | 140 |     |     |     |     |     |
| 135 | Ser   | Leu       | Thr          | Cys | Leu | Val | Lys | Gly | Phe | Tyr | Pro | Ser | Asp | Ile | Ala | Val |     |
| 136 | 145   |           |              |     | 145 |     |     |     | 150 |     |     | 155 |     |     |     | 160 |     |
| 139 | Glu   | Trp       | Glu          | Ser | Asn | Gly | Gln | Pro | Glu | Asn | Asn | Tyr | Lys | Thr | Thr | Pro |     |
| 140 |       |           |              |     | 165 |     |     |     | 170 |     |     | 175 |     |     |     |     |     |
| 143 | Pro   | Val       | Leu          | Asp | Ser | Asp | Gly | Ser | Phe | Phe | Leu | Tyr | Ser | Lys | Leu | Thr |     |
| 144 |       |           |              |     | 180 |     |     |     | 185 |     |     | 190 |     |     |     |     |     |

RAW SEQUENCE LISTING DATE: 02/10/2002  
PATENT APPLICATION: US/09/840,669A TIME: 13:03:42

Input Set : A:\A-690.ST25.txt  
Output Set: N:\CRF3\02102002\I840669A.raw

147 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val  
148 195 200 205  
151 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu  
152 210 215 220  
155 Ser Pro Gly Lys  
156 225  
159 <210> SEQ ID NO: 3  
160 <211> LENGTH: 8  
161 <212> TYPE: PRT  
162 <213> ORGANISM: Artificial Sequence  
164 <220> FEATURE:  
165 <223> OTHER INFORMATION: Preferred linker  
167 <400> SEQUENCE: 3  
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170 1 5  
173 <210> SEQ ID NO: 4  
174 <211> LENGTH: 7  
175 <212> TYPE: PRT  
176 <213> ORGANISM: Artificial Sequence  
178 <220> FEATURE:  
179 <223> OTHER INFORMATION: Preferred linker  
181 <400> SEQUENCE: 4  
183 Gly Gly Asn Gly Ser Gly Gly  
184 1 5  
187 <210> SEQ ID NO: 5  
188 <211> LENGTH: 8  
189 <212> TYPE: PRT  
190 <213> ORGANISM: Artificial Sequence  
192 <220> FEATURE:  
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195 <400> SEQUENCE: 5  
197 Gly Gly Gly Cys Gly Gly Gly  
198 1 5  
201 <210> SEQ ID NO: 6  
202 <211> LENGTH: 5  
203 <212> TYPE: PRT  
204 <213> ORGANISM: Artificial Sequence  
206 <220> FEATURE:  
207 <223> OTHER INFORMATION: Preferred linker  
209 <400> SEQUENCE: 6  
211 Gly Pro Asn Gly Gly  
212 1 5  
215 <210> SEQ ID NO: 7  
216 <211> LENGTH: 18  
217 <212> TYPE: PRT  
218 <213> ORGANISM: Homo sapiens  
220 <400> SEQUENCE: 7  
222 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu  
223 1 5 10 15

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/840,669A

DATE: 02/10/2002  
TIME: 13:03:42

Input Set : A:\A-690.ST25.txt  
Output Set: N:\CRF3\02102002\I840669A.raw

226 Ala Phe  
 230 <210> SEQ ID NO: 8  
 231 <211> LENGTH: 18  
 232 <212> TYPE: PRT  
 233 <213> ORGANISM: Artificial Sequence  
 235 <220> FEATURE:  
 236 <223> OTHER INFORMATION: Preferred embodiments  
 238 <220> FEATURE:  
 239 <221> NAME/KEY: misc\_feature  
 240 <222> LOCATION: (18)..(18)  
 241 <223> OTHER INFORMATION: Fc domain attached at Position 18 through an optional linker  
 244 <400> SEQUENCE: 8  
 246 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu  
 247 1 5 10 15  
 250 Ala Phe  
 254 <210> SEQ ID NO: 9  
 255 <211> LENGTH: 18  
 256 <212> TYPE: PRT  
 257 <213> ORGANISM: Artificial Sequence  
 259 <220> FEATURE:  
 260 <223> OTHER INFORMATION: Preferred embodiments  
 262 <220> FEATURE:  
 263 <221> NAME/KEY: misc\_feature  
 264 <222> LOCATION: (1)..(1)  
 265 <223> OTHER INFORMATION: Fc domain attached through optional linker  
 268 <400> SEQUENCE: 9  
 270 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu  
 271 1 5 10 15  
 274 Ala Phe  
 278 <210> SEQ ID NO: 10  
 279 <211> LENGTH: 18  
 280 <212> TYPE: PRT  
 281 <213> ORGANISM: Artificial Sequence  
 283 <220> FEATURE:  
 284 <223> OTHER INFORMATION: Preferred embodiments  
 286 <220> FEATURE:  
 287 <221> NAME/KEY: misc\_feature ? only 18 amino acids are shown  
 288 <222> LOCATION: (19)..(19)  
 289 <223> OTHER INFORMATION: Attached by optional linker to identical sequence, which is  
 attac  
 290 hed by optional linker to an Fc domain  
 293 <400> SEQUENCE: 10  
 295 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu  
 296 1 5 10 15  
 299 Ala Phe  
 303 <210> SEQ ID NO: 11  
 304 <211> LENGTH: 18  
 305 <212> TYPE: PRT  
 306 <213> ORGANISM: Artificial Sequence  
 308 <220> FEATURE:

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/840,669A

DATE: 02/10/2002

TIME: 13:03:42

Input Set : A:\A-690.ST25.txt

Output Set: N:\CRF3\02102002\I840669A.raw

309 <223> OTHER INFORMATION: Preferred embodiments  
311 <220> FEATURE:  
312 <221> NAME/KEY: misc\_feature  
313 <222> LOCATION: (1)..(1)  
314 <223> OTHER INFORMATION: Attached by optional linker to Fc domain at the N-terminus.  
318 <220> FEATURE:  
319 <221> NAME/KEY: misc\_feature  
320 <222> LOCATION: (18)..(18)  
321 <223> OTHER INFORMATION: Attached by optional linker to an identical sequence  
324 <400> SEQUENCE: 11  
326 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu  
327 1 5 10 15  
330 Ala Phe

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/840,669A

DATE: 02/10/2002

TIME: 13:03:43

Input Set : A:\A-690.ST25.txt

Output Set: N:\CRF3\02102002\I840669A.raw